

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090624\
 Data File : VN083703.D
 Acq On : 06 Sep 2024 18:00
 Operator : JC\MD
 Sample : P3884-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(SEP)

Quant Time: Sep 06 23:50:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

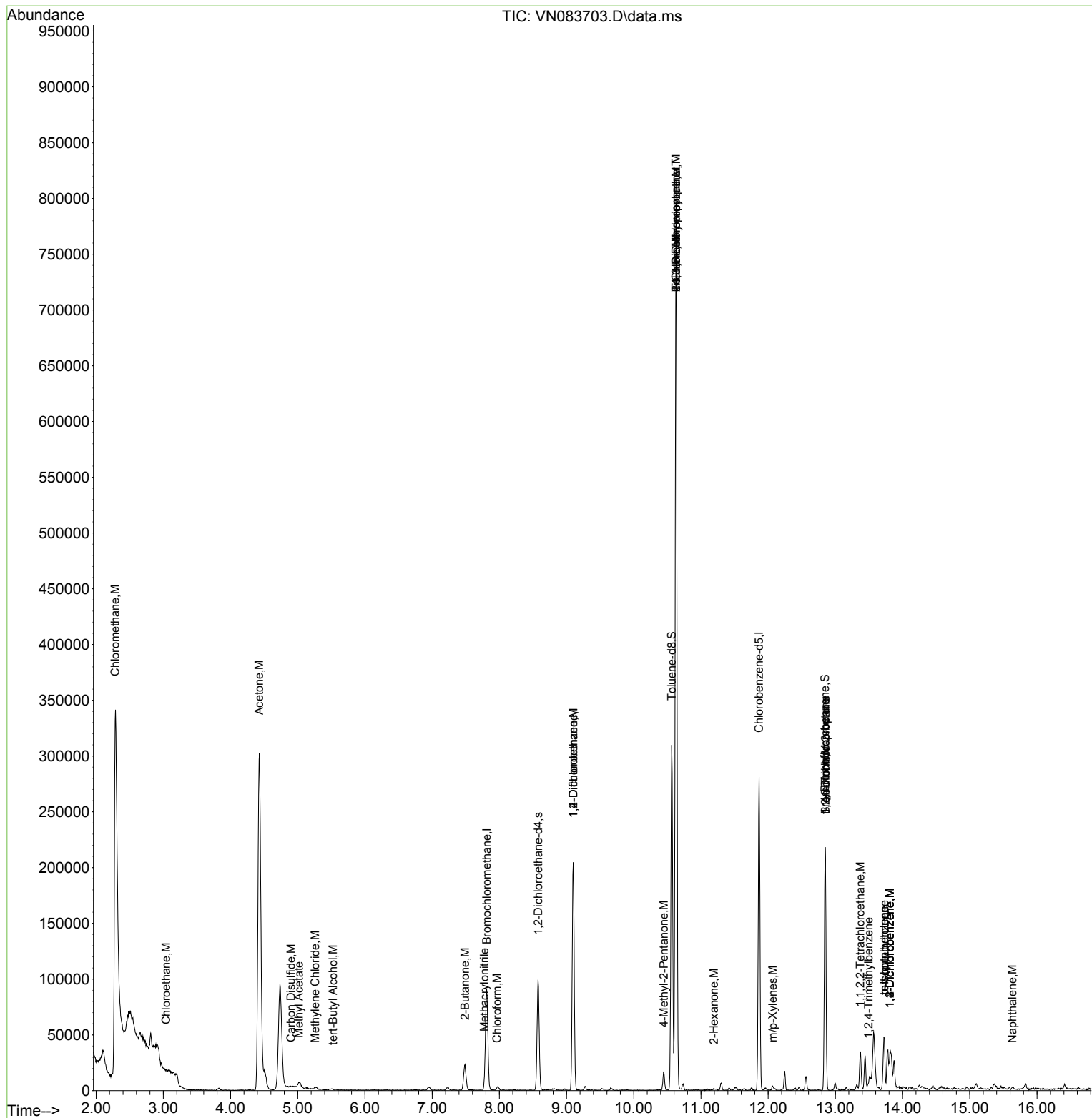
Internal Standards						
1) Bromochloromethane	7.812	128	28985	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	171553	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	153779	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83628	31.564	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.200%
60) 4-Bromofluorobenzene	12.847	95	75888	28.633	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.433%
63) Toluene-d8	10.565	98	207029	29.075	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.900%
Target Compounds						
					Qvalue	
3) Chloromethane	2.283	50	12094	5.997	ug/l #	43
6) Chloroethane	3.042	64	1350	0.972	ug/l #	51
12) Methyl Acetate	5.018	43	10515	4.840	ug/l #	83
15) Acetone	4.424	58	149711	513.322	ug/l #	62
16) Carbon Disulfide	4.900	76	1563	0.307	ug/l	99
18) Methylene Chloride	5.259	84	479	0.243	ug/l #	34
23) tert-Butyl Alcohol	5.524	59	71	0.220	ug/l #	100
25) Chloroform	7.965	83	819	0.212	ug/l #	76
30) 2-Butanone	7.488	43	37213	29.012	ug/l	94
35) Methacrylonitrile	7.777	41	440	0.305	ug/l #	42
36) 1,2-Dichloroethane	9.100	62	6701	2.183	ug/l #	72
48) t-1,3-Dichloropropene	10.629	75	4558	1.418	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	4558	1.364	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.629	63	42978	34.527	ug/l #	1
56) Bromoform	12.853	173	530	0.380	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	11298	4.633	ug/l #	88
59) 2-Hexanone	11.194	43	1021	0.554	ug/l #	41
62) Toluene	10.629	91	583967	66.067	ug/l	99
67) m/p-Xylenes	12.070	106	1285	0.347	ug/l	90
71) 1,1,2,2-Tetrachloroethane	13.370	83	3359	1.302	ug/l #	40
72) 1,2,3-Trichloropropane	12.853	75	43939	19.427	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	43939	45.960	ug/l #	12
79) tert-butylbenzene	13.729	119	18639	2.702	ug/l	58
80) 1,2,4-Trimethylbenzene	13.494	105	2641	0.331	ug/l	61
82) p-Isopropyltoluene	13.729	119	18639	2.351	ug/l	98
83) 1,3-Dichlorobenzene	13.812	146	847	0.203	ug/l	69
84) 1,4-Dichlorobenzene	13.812	146	847	0.203	ug/l #	67
87) 1,2-Dichlorobenzene	13.812	146	847	0.209	ug/l	70
91) Naphthalene	15.635	128	2730	0.376	ug/l #	75

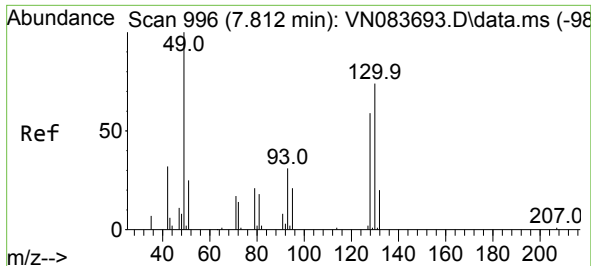
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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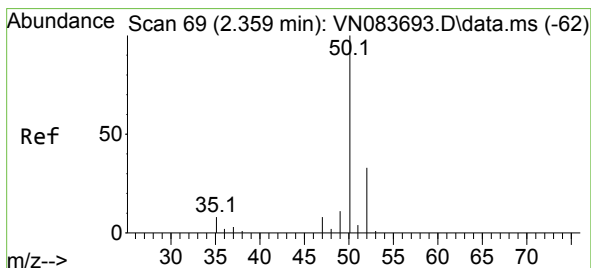
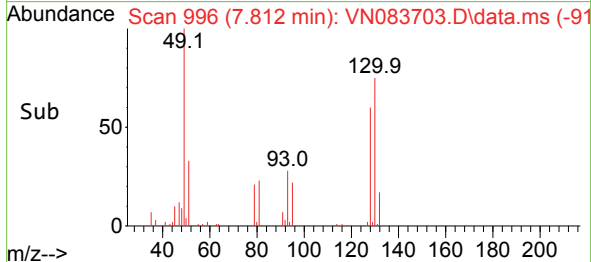
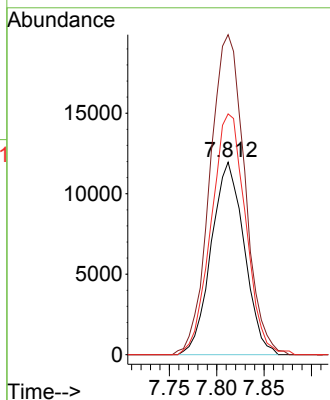
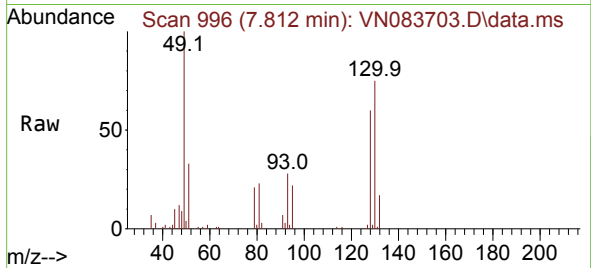




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

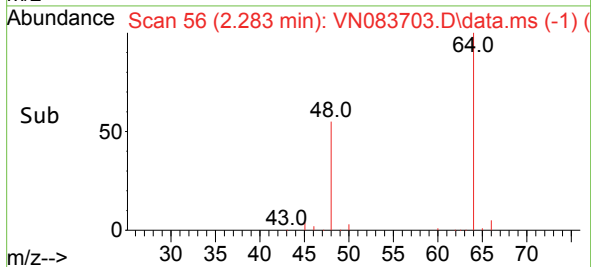
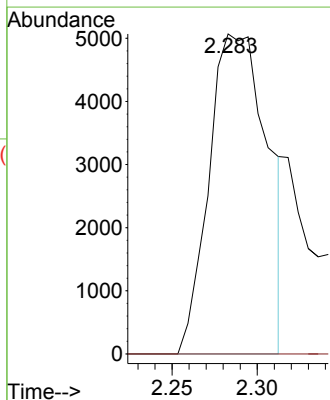
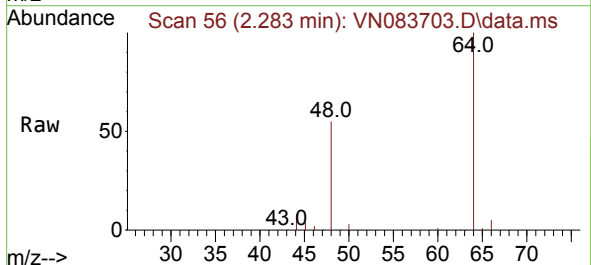
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

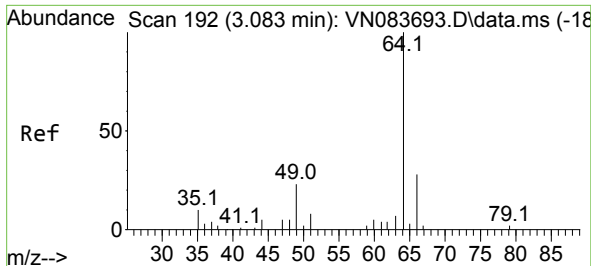
Tgt Ion:128 Resp: 28985
Ion Ratio Lower Upper
128 100
49 175.3 0.0 403.7
130 130.2 0.0 323.3



#3
Chloromethane
Concen: 5.997 ug/l
RT: 2.283 min Scan# 56
Delta R.T. -0.076 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

Tgt Ion: 50 Resp: 12094
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.0

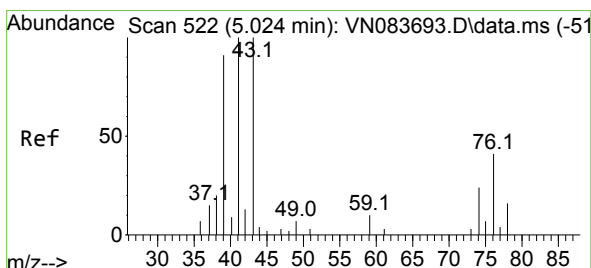
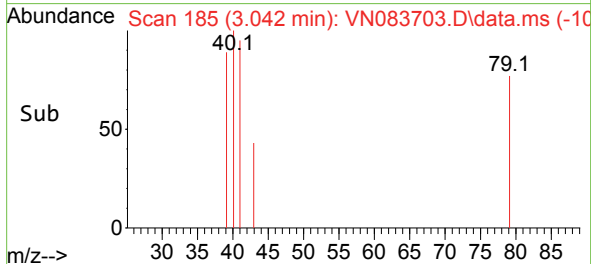
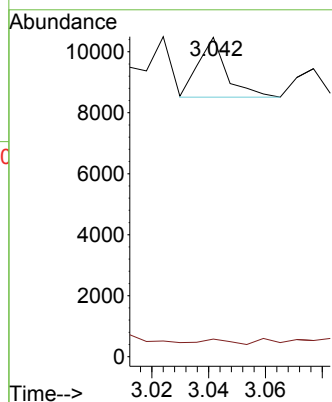
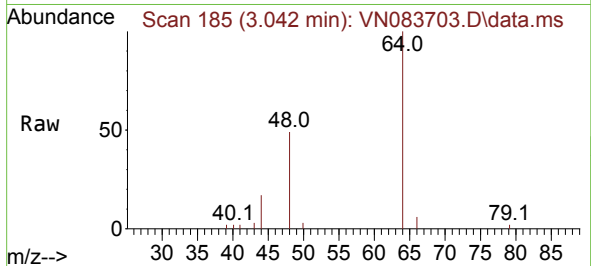




#6
Chloroethane
Concen: 0.972 ug/l
RT: 3.042 min Scan# 11
Delta R.T. -0.041 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

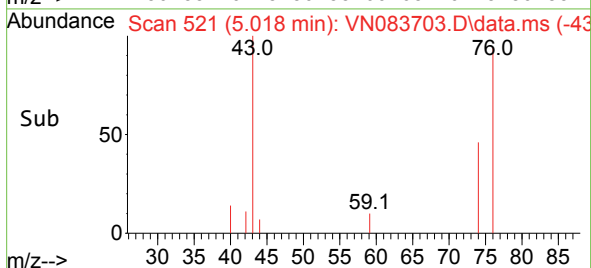
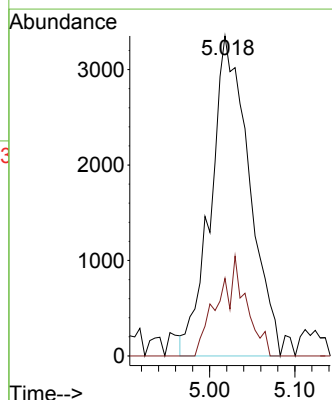
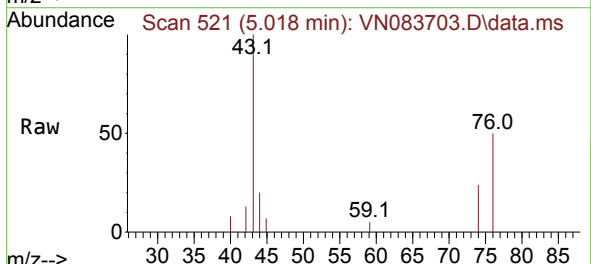
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

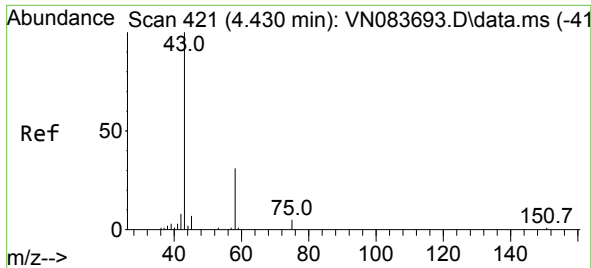
Tgt Ion: 64 Resp: 1350
Ion Ratio Lower Upper
64 100
66 5.8 26.7 40.1#



#12
Methyl Acetate
Concen: 4.840 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

Tgt Ion: 43 Resp: 10515
Ion Ratio Lower Upper
43 100
74 25.0 27.7 41.5#

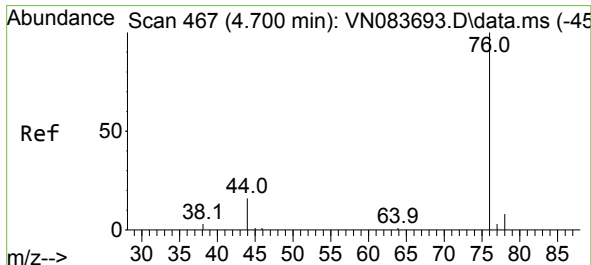
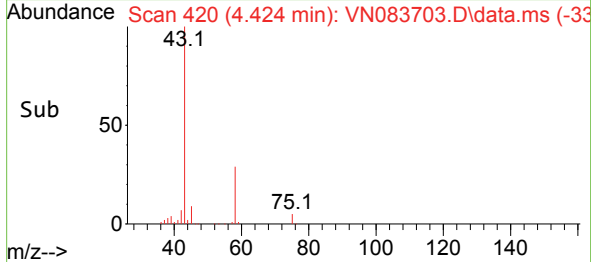
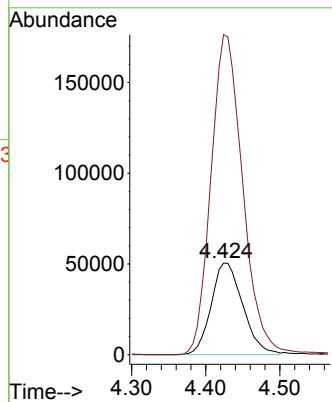
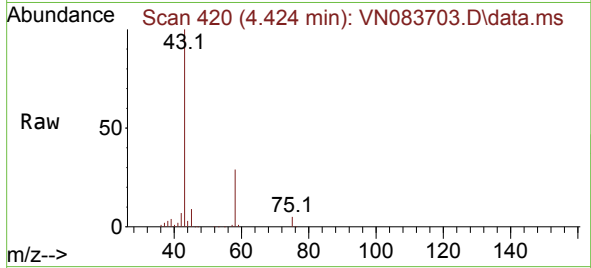




#15
Acetone
Concen: 513.322 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

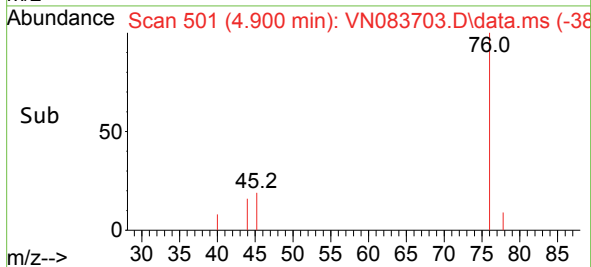
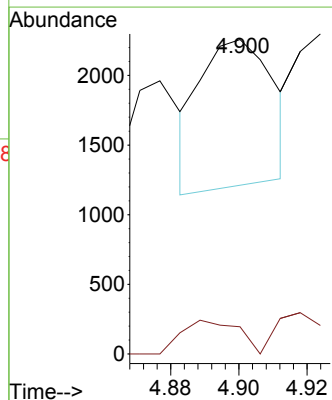
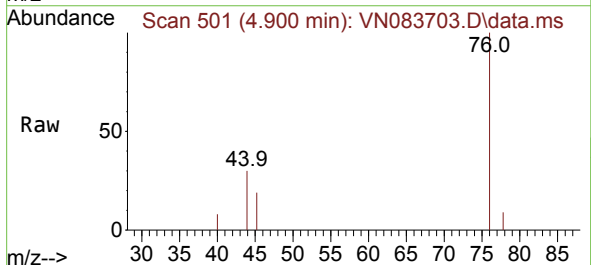
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

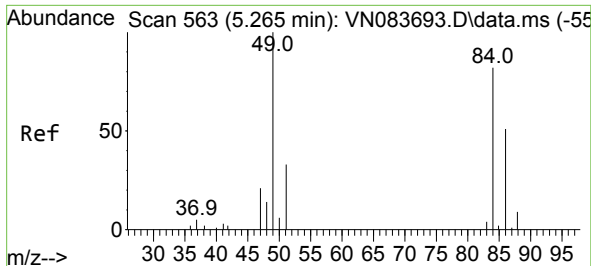
Tgt Ion: 58 Resp: 149711
Ion Ratio Lower Upper
58 100
43 349.1 223.1 334.7#



#16
Carbon Disulfide
Concen: 0.307 ug/l
RT: 4.900 min Scan# 501
Delta R.T. 0.200 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

Tgt Ion: 76 Resp: 1563
Ion Ratio Lower Upper
76 100
78 8.3 6.3 9.5





#18

Methylene Chloride

Concen: 0.243 ug/l

RT: 5.259 min Scan# 5

Delta R.T. -0.006 min

Lab File: VN083703.D

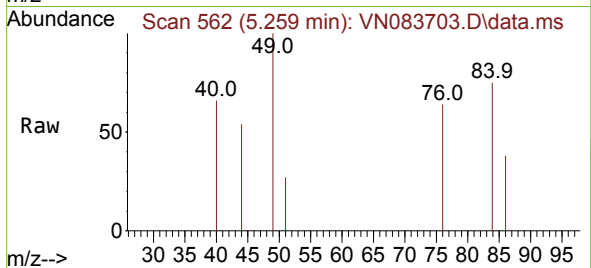
Acq: 06 Sep 2024 18:00

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(SEP)



Tgt Ion: 84 Resp: 479

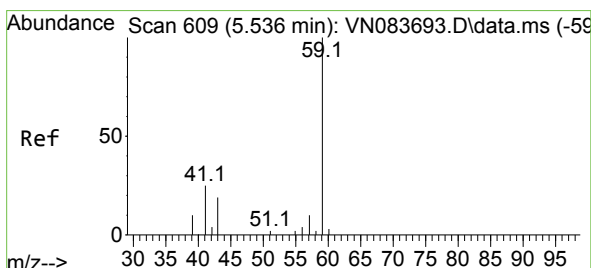
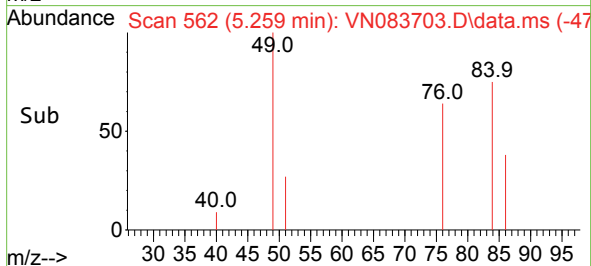
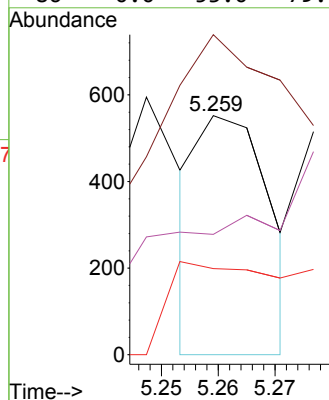
Ion Ratio Lower Upper

84 100

49 43.3 86.0 129.0#

51 8.1 30.0 45.0#

86 0.0 53.0 79.4#



#23

tert-Butyl Alcohol

Concen: 0.220 ug/l

RT: 5.524 min Scan# 607

Delta R.T. -0.012 min

Lab File: VN083703.D

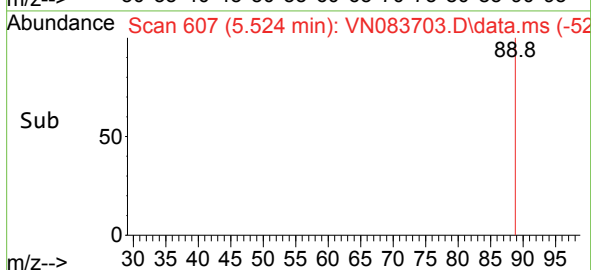
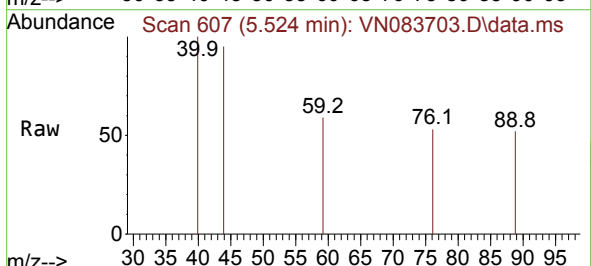
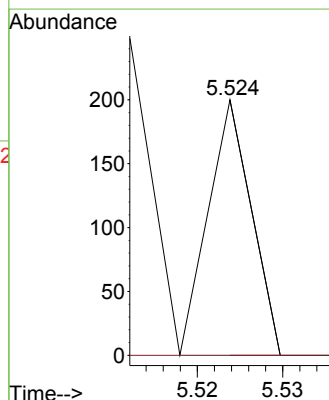
Acq: 06 Sep 2024 18:00

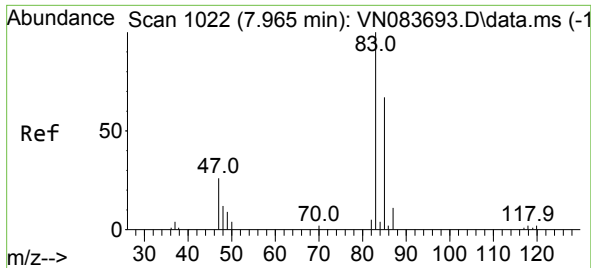
Tgt Ion: 59 Resp: 71

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

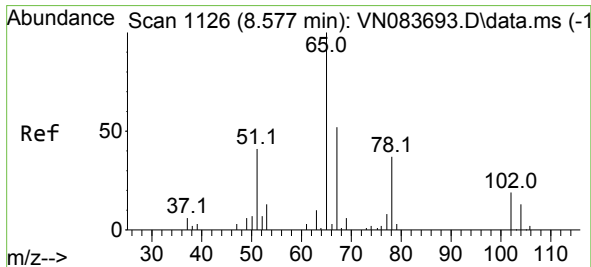
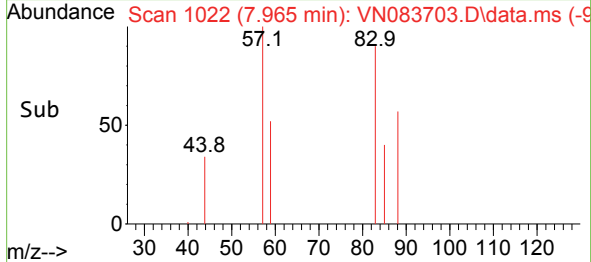
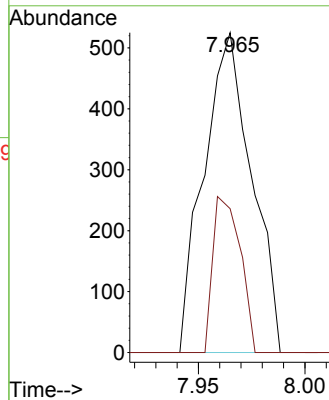
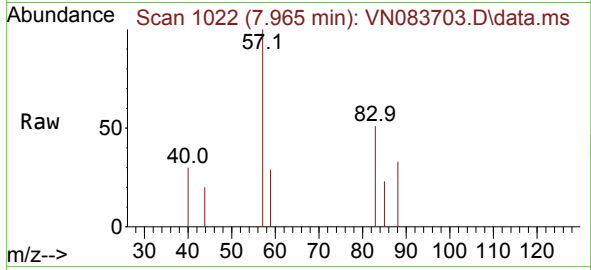




#25
Chloroform
Concen: 0.212 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

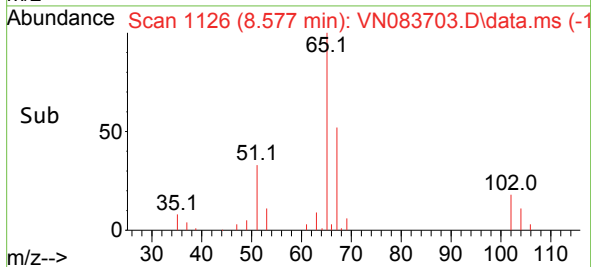
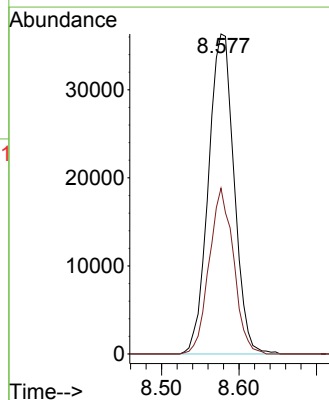
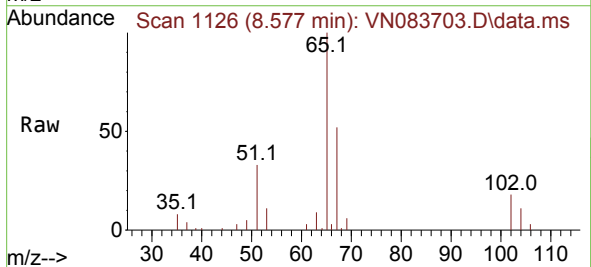
Instrument :
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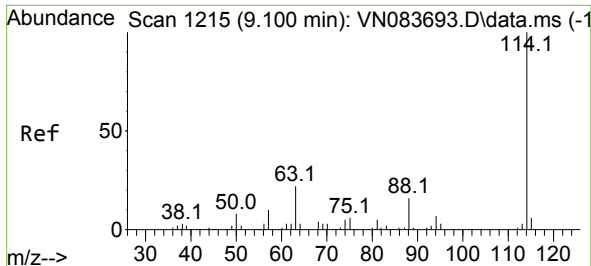
Tgt Ion: 83 Resp: 819
Ion Ratio Lower Upper
83 100
85 45.0 50.9 76.3#



#27
1,2-Dichloroethane-d4
Concen: 31.564 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

Tgt Ion: 65 Resp: 83628
Ion Ratio Lower Upper
65 100
67 49.2 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. -0.000 min

Lab File: VN083703.D

Acq: 06 Sep 2024 18:00

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(SEP)

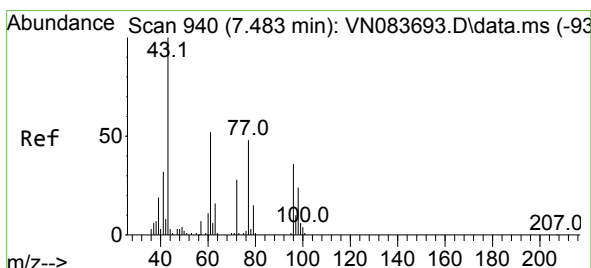
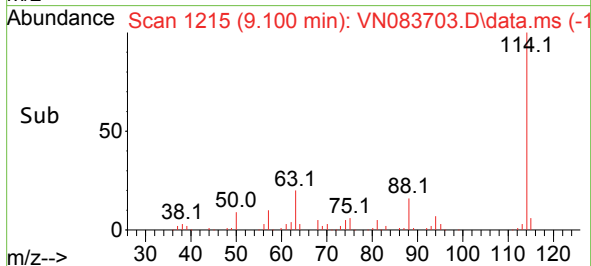
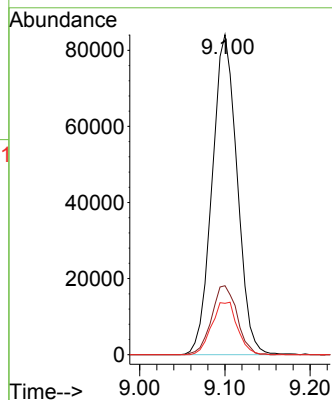
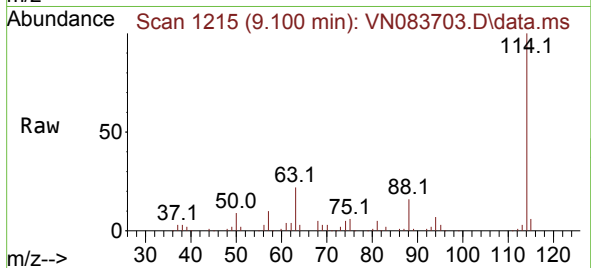
Tgt Ion:114 Resp: 171553

Ion Ratio Lower Upper

114 100

63 22.0 15.9 23.9

88 16.8 12.7 19.1



#30

2-Butanone

Concen: 29.012 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083703.D

Acq: 06 Sep 2024 18:00

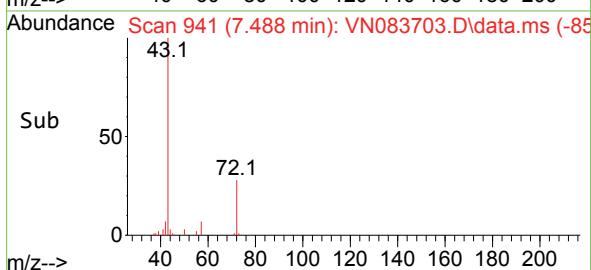
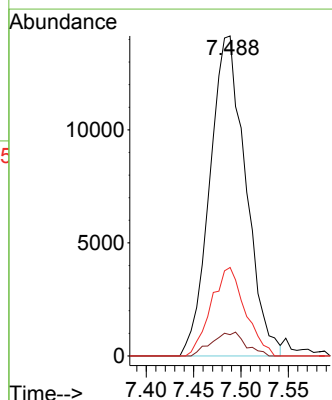
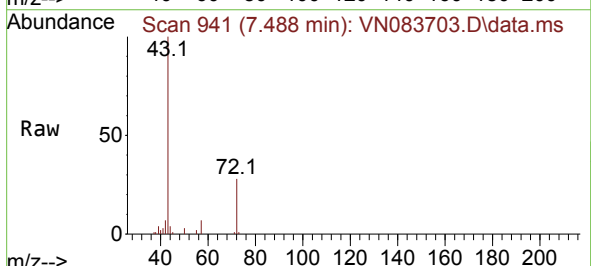
Tgt Ion: 43 Resp: 37213

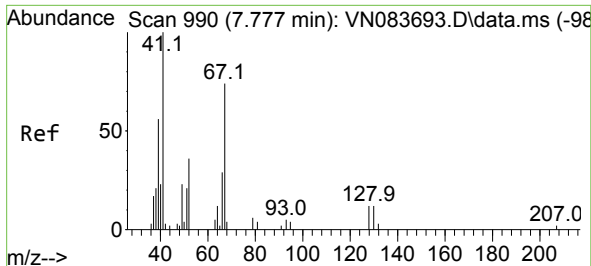
Ion Ratio Lower Upper

43 100

57 7.0 6.7 10.1

72 26.3 24.0 36.0

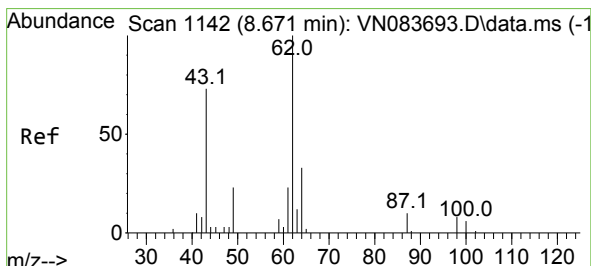
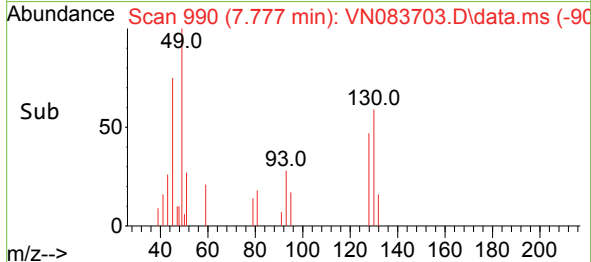
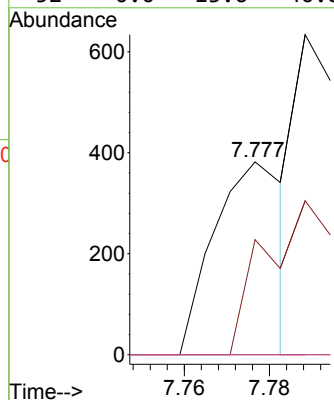
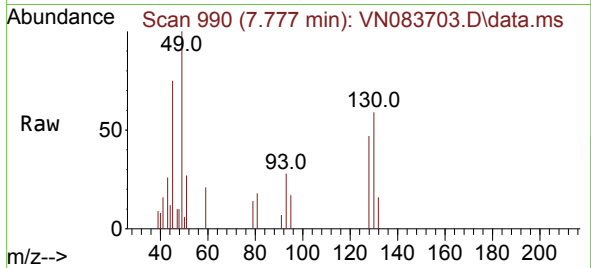




#35
Methacrylonitrile
Concen: 0.305 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

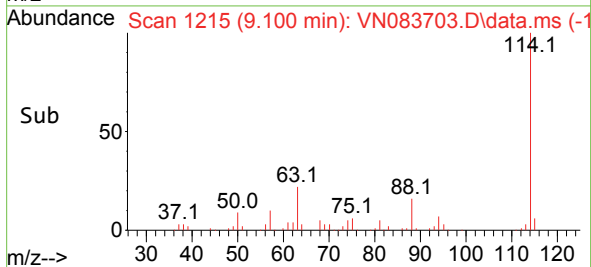
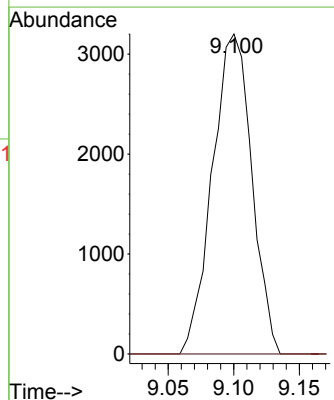
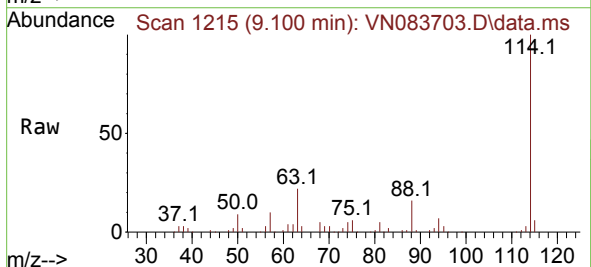
Instrument :
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002-35TH-AVE(SEP)

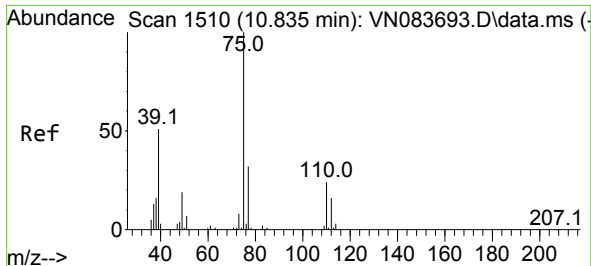
Tgt Ion:	41	Resp:	440
Ion Ratio	Lower	Upper	
41	100		
39	59.7	25.3	75.9
67	0.0	38.7	116.1#
52	0.0	13.6	40.8#



#36
1,2-Dichloroethane
Concen: 2.183 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.429 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

Tgt Ion:	62	Resp:	6701
Ion Ratio	Lower	Upper	
62	100		
98	0.0	8.2	12.4#

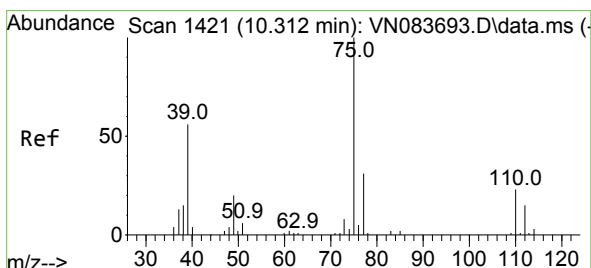
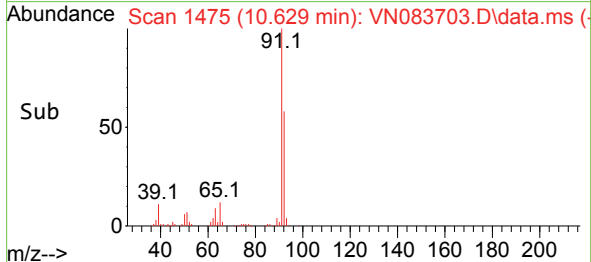
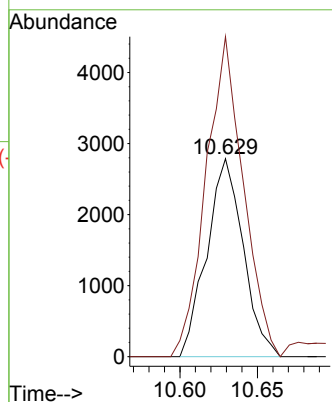
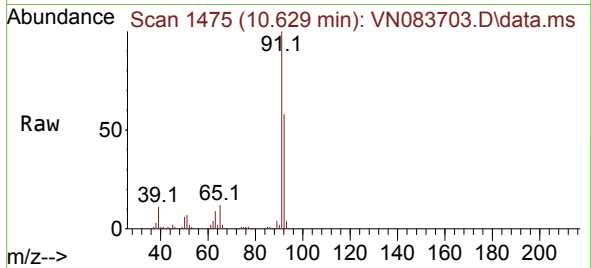




#48
t-1,3-Dichloropropene
Concen: 1.418 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.206 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

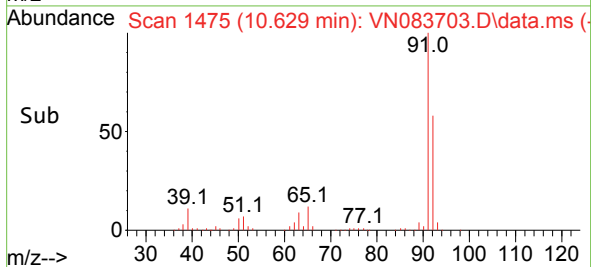
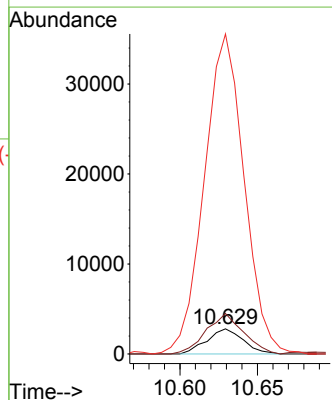
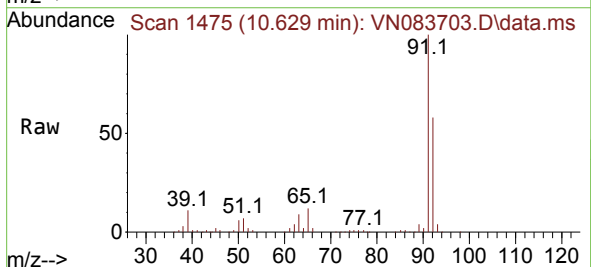
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

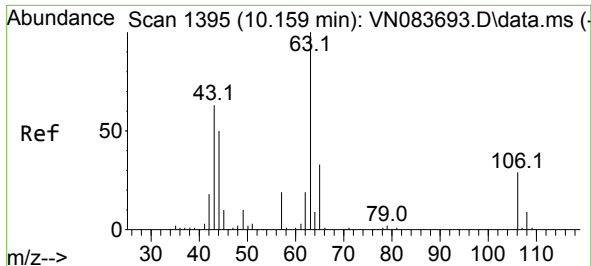
Tgt Ion: 75 Resp: 4558
Ion Ratio Lower Upper
75 100
77 161.7 23.8 35.6#



#49
cis-1,3-Dichloropropene
Concen: 1.364 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.318 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

Tgt Ion: 75 Resp: 4558
Ion Ratio Lower Upper
75 100
77 161.7 24.9 37.3#
39 1252.0 31.0 46.6#





#55

2-Chloroethyl vinyl ether

Concen: 34.527 ug/l

RT: 10.629 min Scan# 14

Delta R.T. 0.471 min

Lab File: VN083703.D

Acq: 06 Sep 2024 18:00

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(SEP)

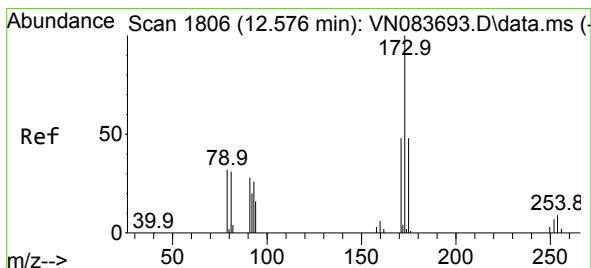
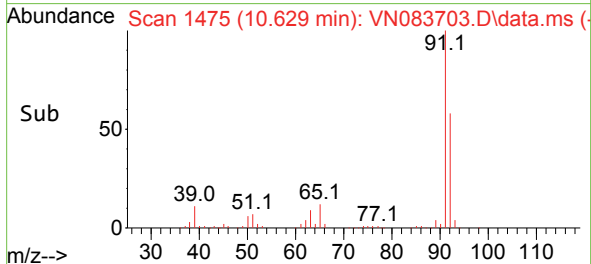
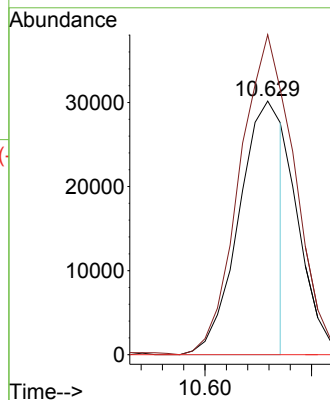
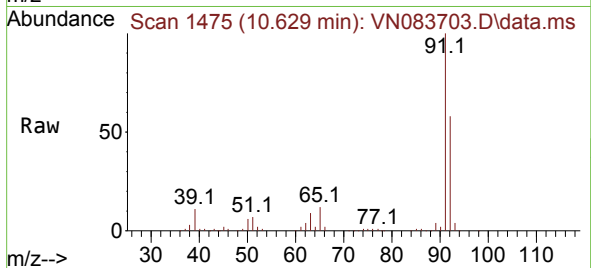
Tgt Ion: 63 Resp: 42978

Ion Ratio Lower Upper

63 100

65 121.4 26.2 39.2#

106 0.0 23.8 35.8#



#56

Bromoform

Concen: 0.380 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.276 min

Lab File: VN083703.D

Acq: 06 Sep 2024 18:00

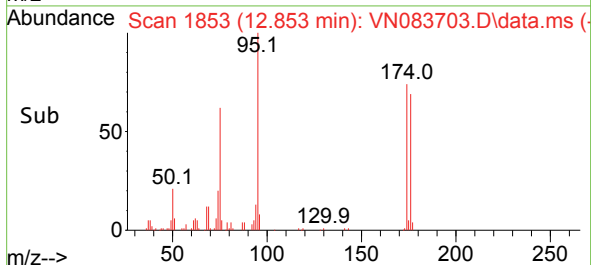
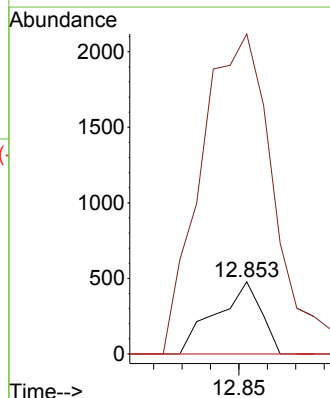
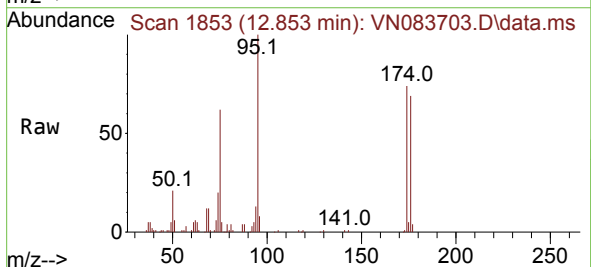
Tgt Ion:173 Resp: 530

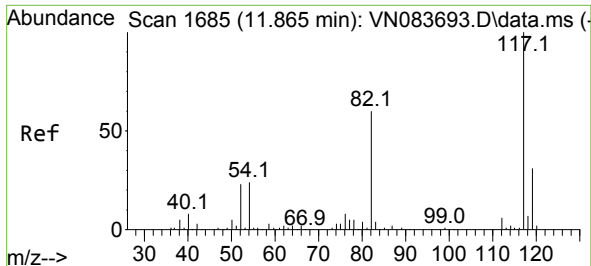
Ion Ratio Lower Upper

173 100

175 707.7 40.0 60.0#

254 0.0 8.3 12.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN083703.D

Acq: 06 Sep 2024 18:00

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(SEP)

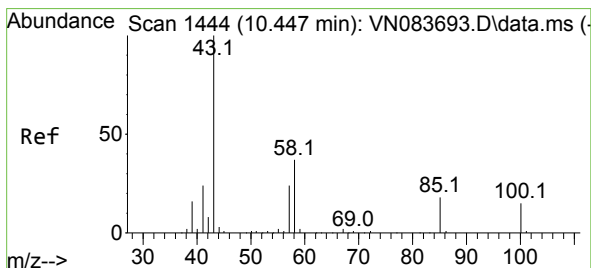
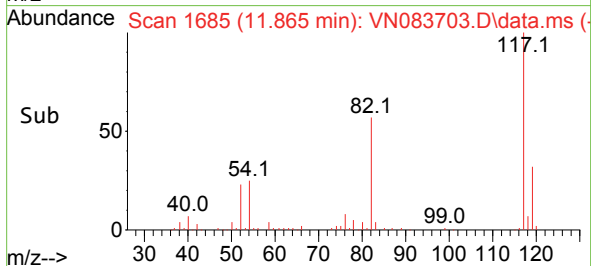
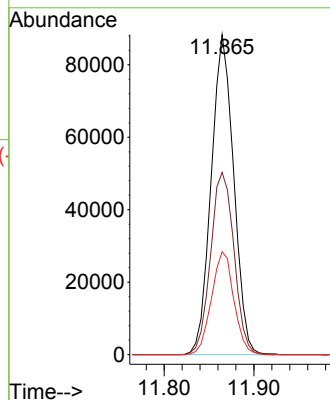
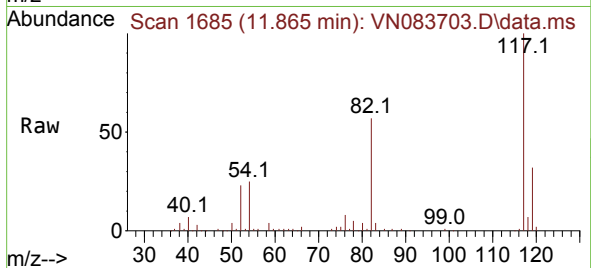
Tgt Ion:117 Resp: 153779

Ion Ratio Lower Upper

117 100

82 59.3 46.6 69.8

119 32.0 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 4.633 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN083703.D

Acq: 06 Sep 2024 18:00

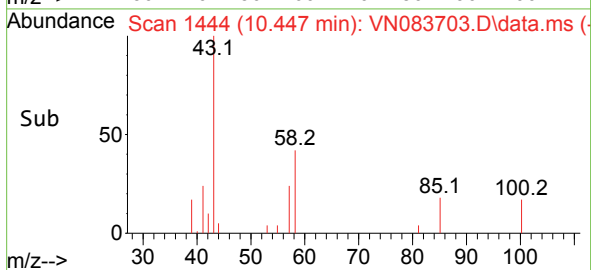
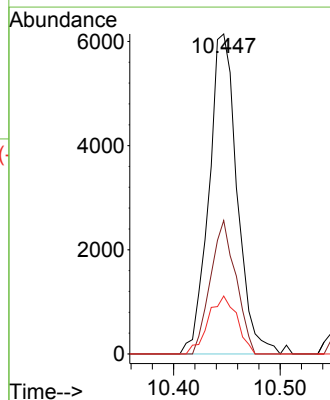
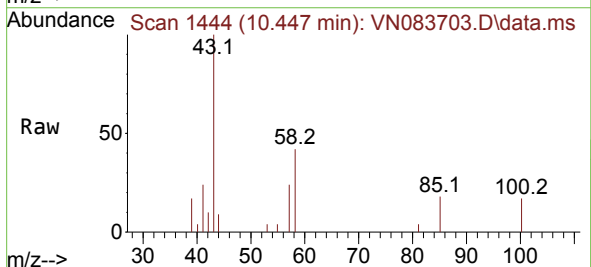
Tgt Ion: 43 Resp: 11298

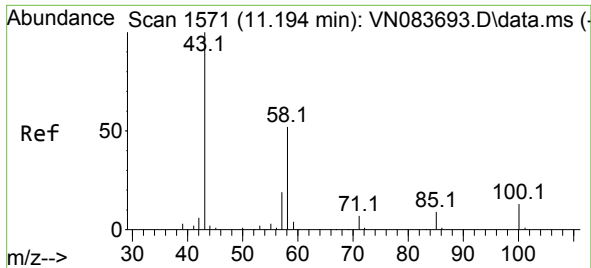
Ion Ratio Lower Upper

43 100

58 37.6 36.5 54.7

85 18.5 19.5 29.3#

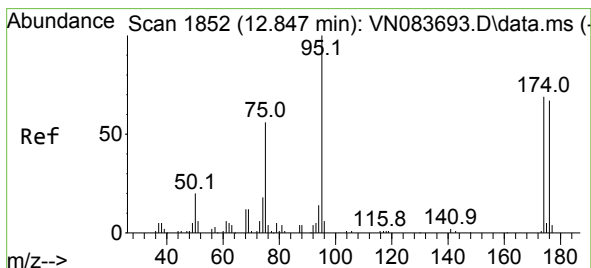
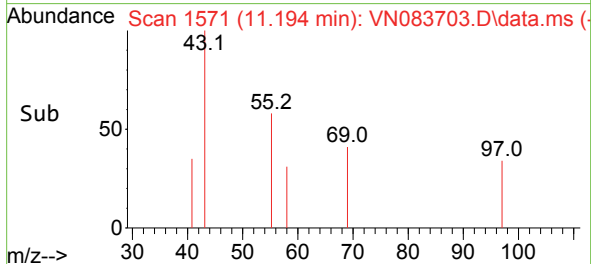
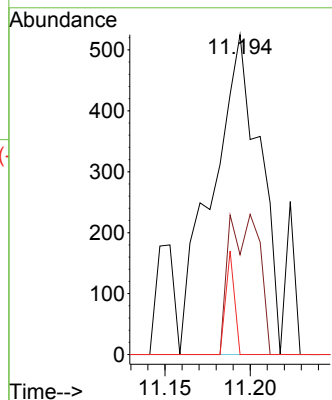
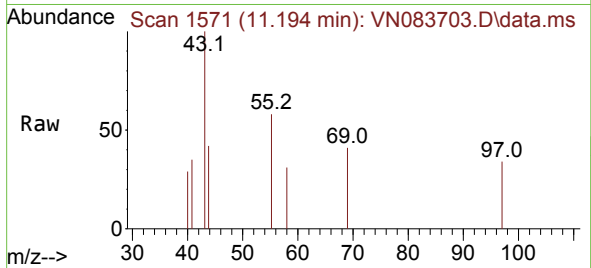




#59
2-Hexanone
Concen: 0.554 ug/l
RT: 11.194 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

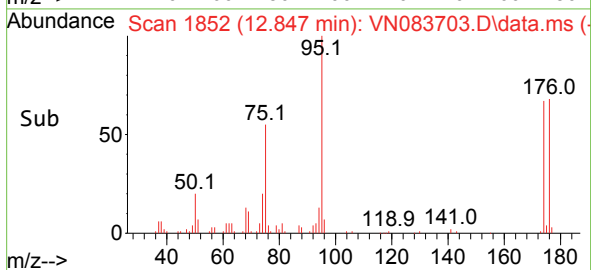
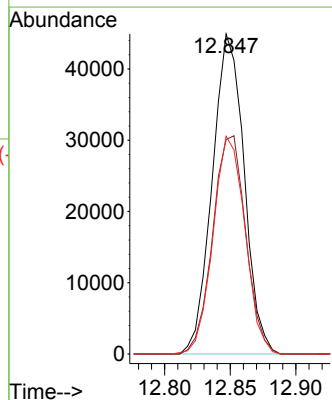
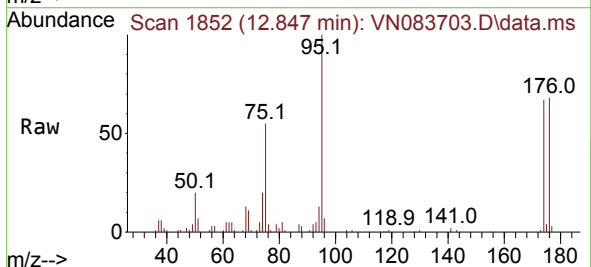
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

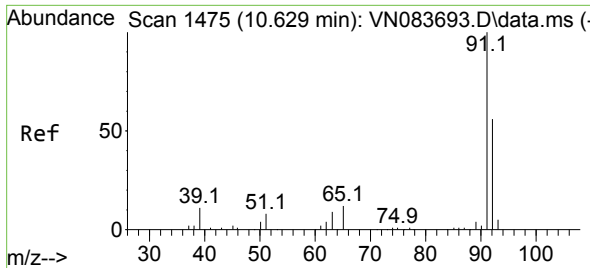
Tgt Ion:	43	Resp:	1021
Ion	Ratio	Lower	Upper
43	100		
58	14.3	50.4	75.6#
57	0.0	18.6	27.8#



#60
4-Bromofluorobenzene
Concen: 28.633 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

Tgt Ion:	95	Resp:	75888
Ion	Ratio	Lower	Upper
95	100		
174	70.7	60.5	90.7
176	68.1	57.8	86.6

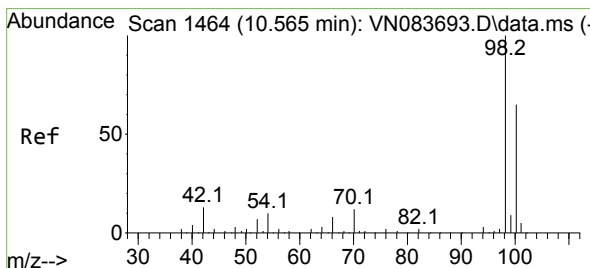
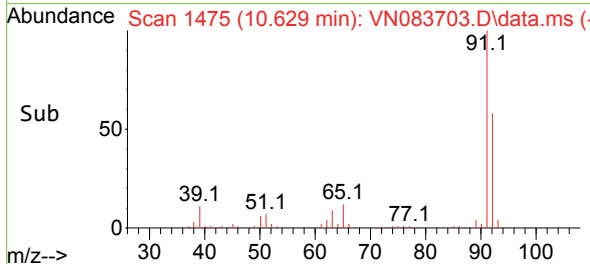
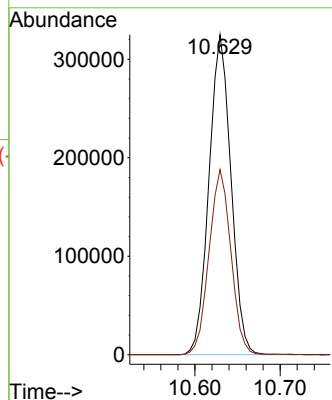
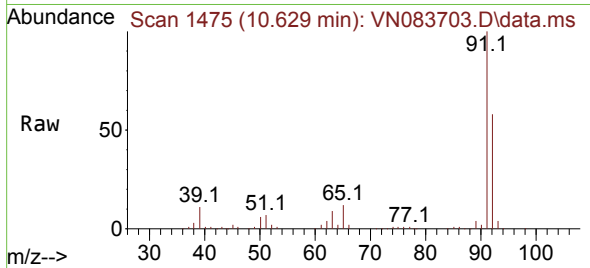




#62
Toluene
Concen: 66.067 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

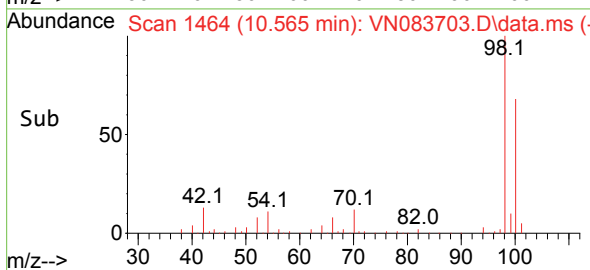
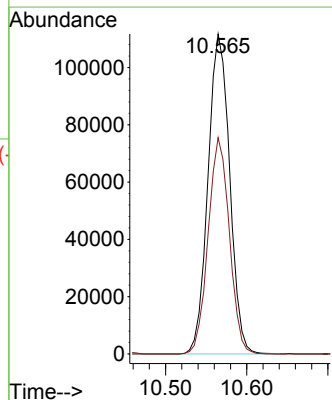
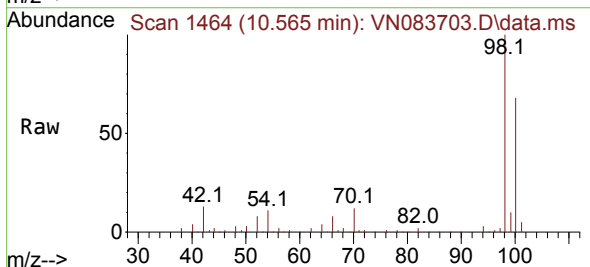
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

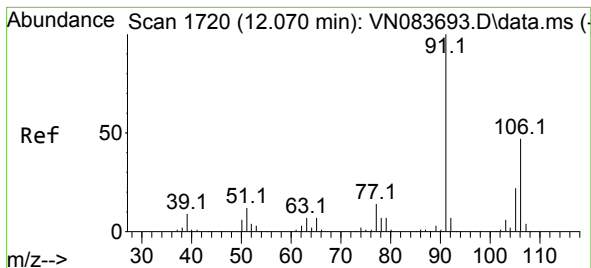
Tgt Ion: 91 Resp: 583967
Ion Ratio Lower Upper
91 100
92 57.4 46.5 69.7



#63
Toluene-d8
Concen: 29.075 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

Tgt Ion: 98 Resp: 207029
Ion Ratio Lower Upper
98 100
100 66.2 52.7 79.1

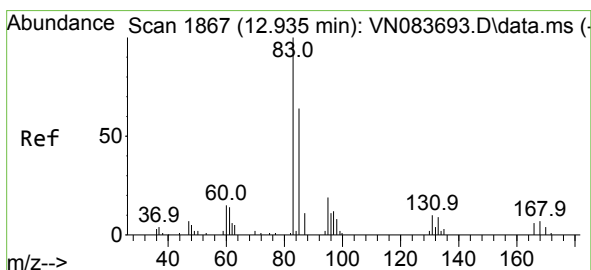
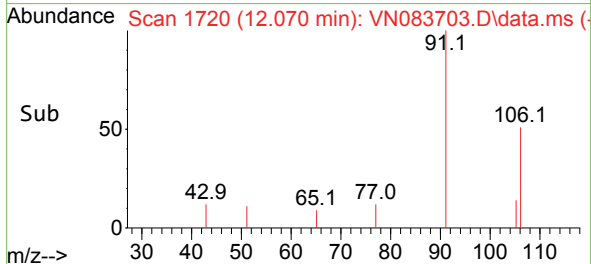
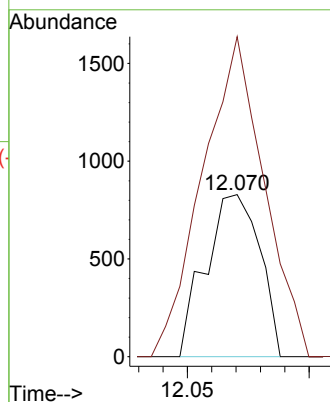
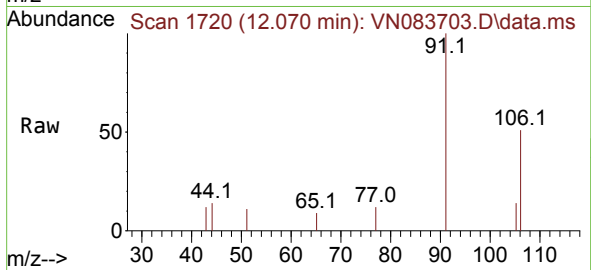




#67
m/p-Xylenes
Concen: 0.347 ug/l
RT: 12.070 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

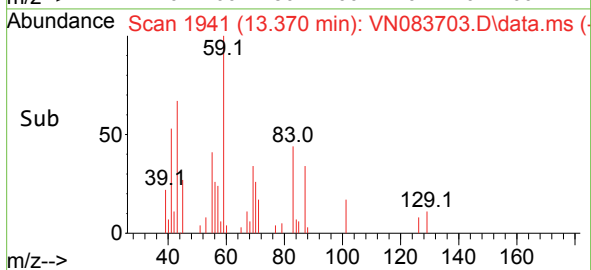
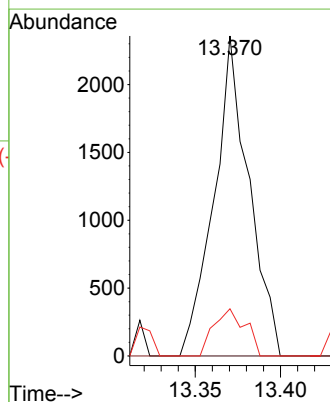
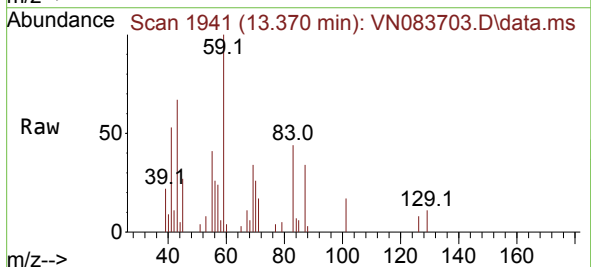
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

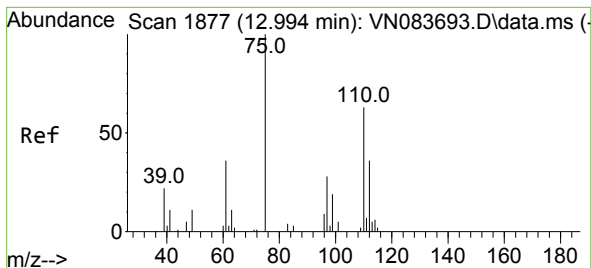
Tgt Ion:106 Resp: 1285
Ion Ratio Lower Upper
106 100
91 224.0 166.6 249.8



#71
1,1,2,2-Tetrachloroethane
Concen: 1.302 ug/l
RT: 13.370 min Scan# 1941
Delta R.T. 0.435 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

Tgt Ion: 83 Resp: 3359
Ion Ratio Lower Upper
83 100
131 0.0 5.2 15.6#
85 13.3 32.3 96.8#





#72

1,2,3-Trichloropropane

Concen: 19.427 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN083703.D

Acq: 06 Sep 2024 18:00

Instrument :

MSVOA_N

ClientSampleId :

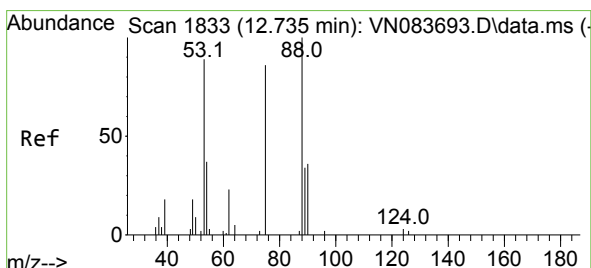
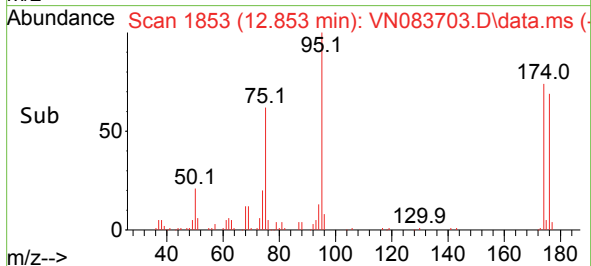
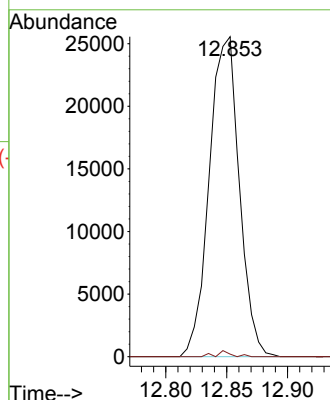
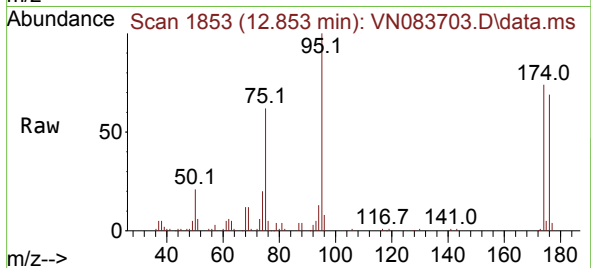
002-35TH-AVE(SEP)

Tgt Ion: 75 Resp: 43939

Ion Ratio Lower Upper

75 100

77 0.6 0.0 367.6



#77

t-1,4-Dichloro-2-butene

Concen: 45.960 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.118 min

Lab File: VN083703.D

Acq: 06 Sep 2024 18:00

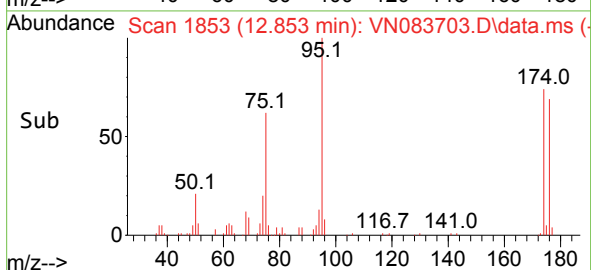
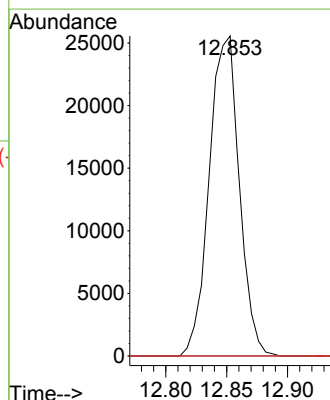
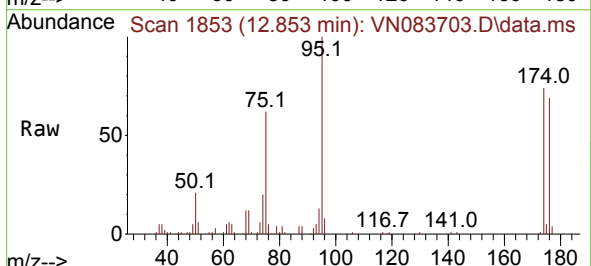
Tgt Ion: 75 Resp: 43939

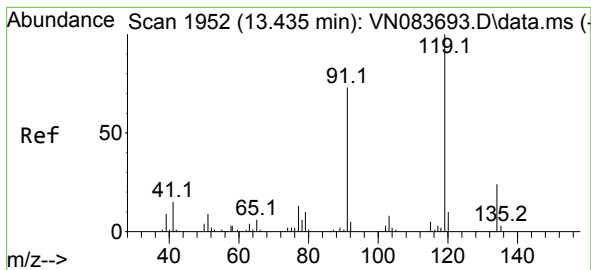
Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.7#

89 0.0 25.9 77.7#





#79

tert-butylbenzene

Concen: 2.702 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.294 min

Lab File: VN083703.D

Acq: 06 Sep 2024 18:00

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(SEP)

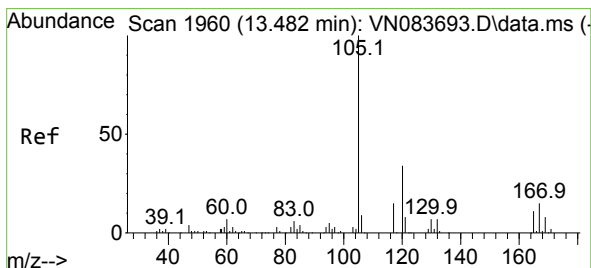
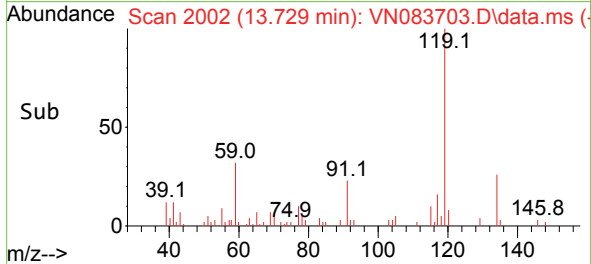
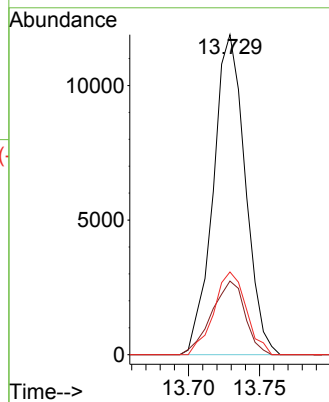
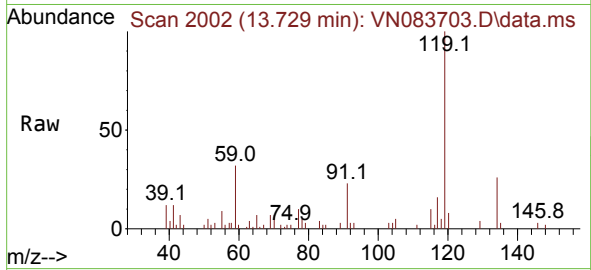
Tgt Ion:119 Resp: 18639

Ion Ratio Lower Upper

119 100

91 24.0 0.0 138.8

134 26.2 0.0 48.6



#80

1,2,4-Trimethylbenzene

Concen: 0.331 ug/l

RT: 13.494 min Scan# 1962

Delta R.T. 0.012 min

Lab File: VN083703.D

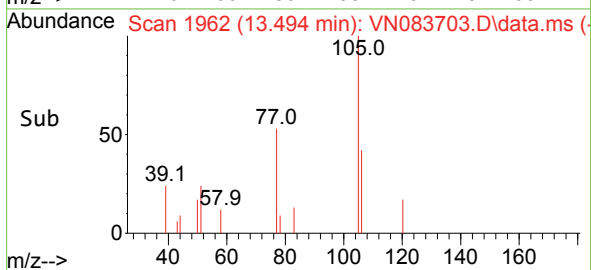
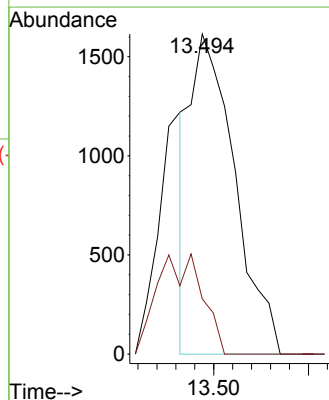
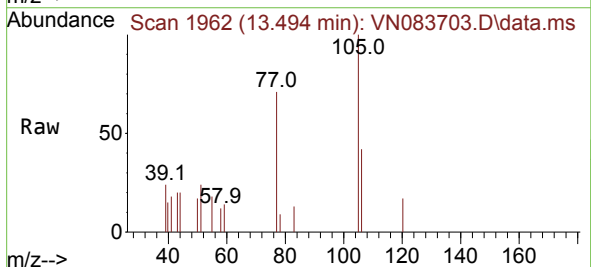
Acq: 06 Sep 2024 18:00

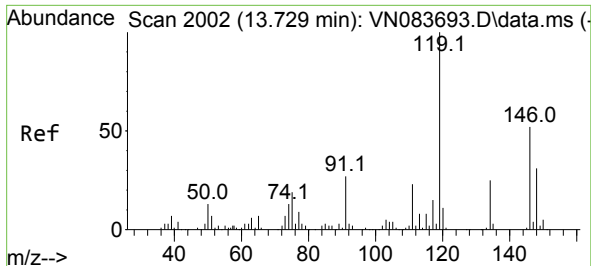
Tgt Ion:105 Resp: 2641

Ion Ratio Lower Upper

105 100

120 18.3 0.0 86.8





#82

p-Isopropyltoluene

Concen: 2.351 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083703.D

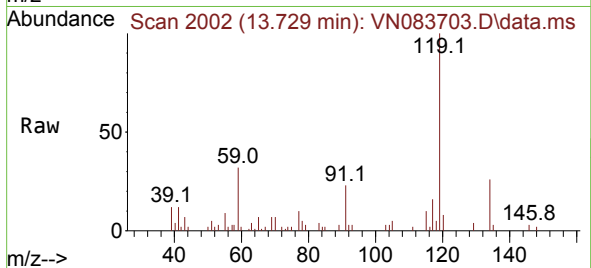
Acq: 06 Sep 2024 18:00

Instrument :

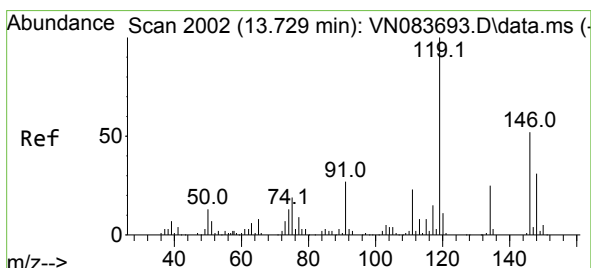
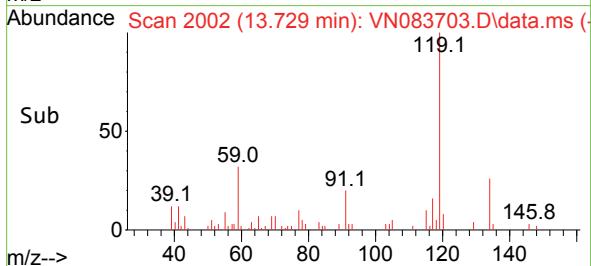
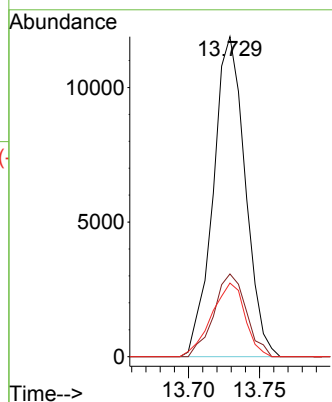
MSVOA_N

ClientSampleId :

002-35TH-AVE(SEP)



Tgt Ion:	119	Resp:	18639
Ion	Ratio	Lower	Upper
119	100		
134	26.2	0.0	49.2
91	24.0	0.0	48.8



#83

1,3-Dichlorobenzene

Concen: 0.203 ug/l

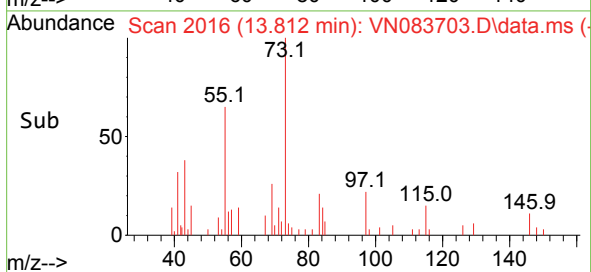
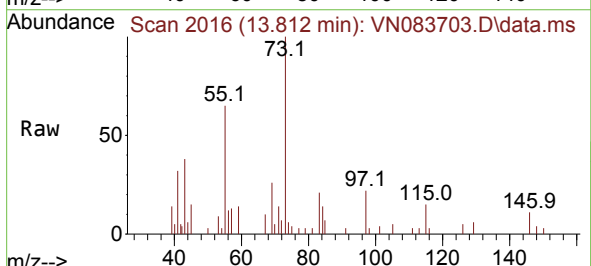
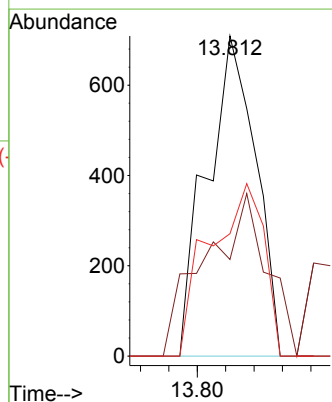
RT: 13.812 min Scan# 2016

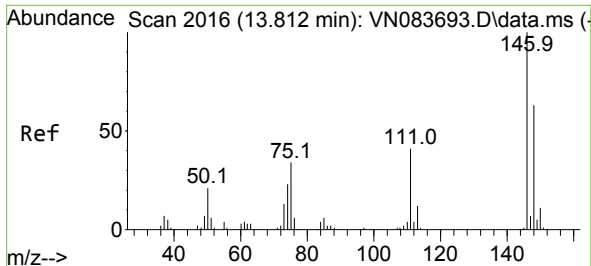
Delta R.T. 0.082 min

Lab File: VN083703.D

Acq: 06 Sep 2024 18:00

Tgt Ion:	146	Resp:	847
Ion	Ratio	Lower	Upper
146	100		
111	64.6	22.4	67.0
148	39.2	32.1	96.5

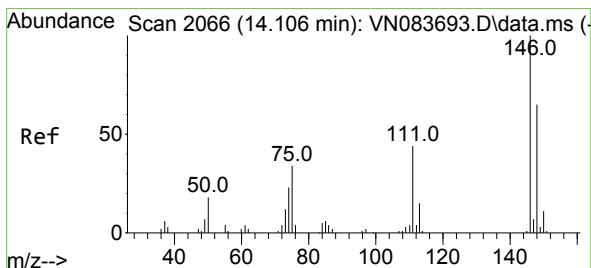
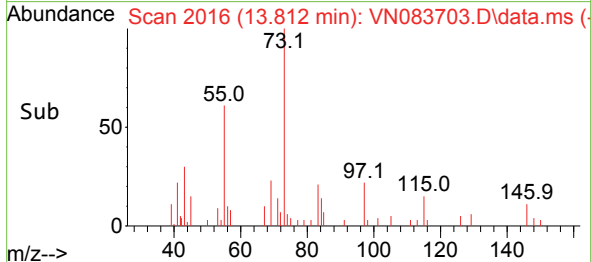
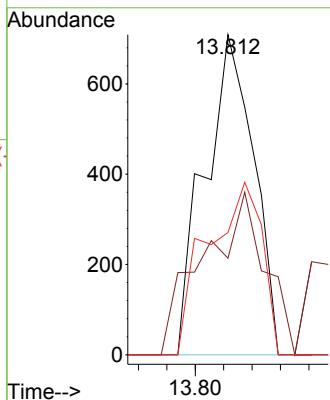
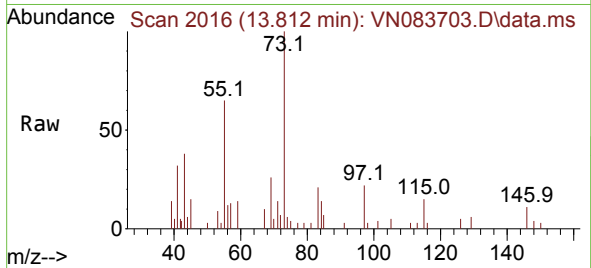




#84
1,4-Dichlorobenzene
Concen: 0.203 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

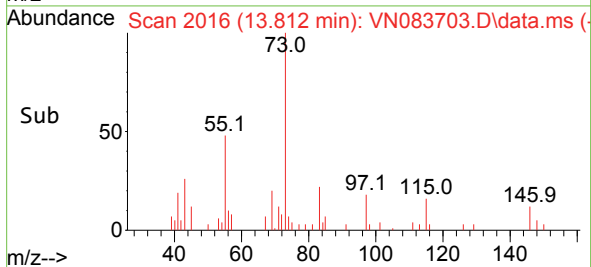
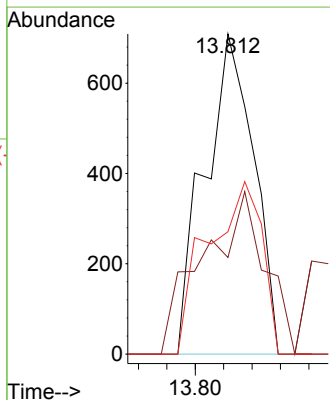
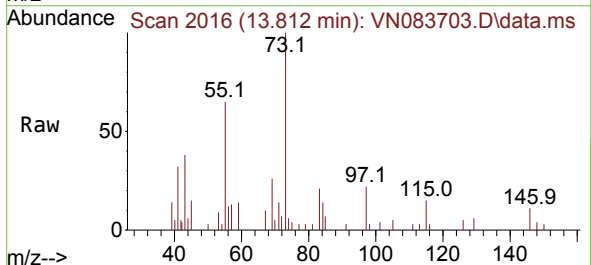
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

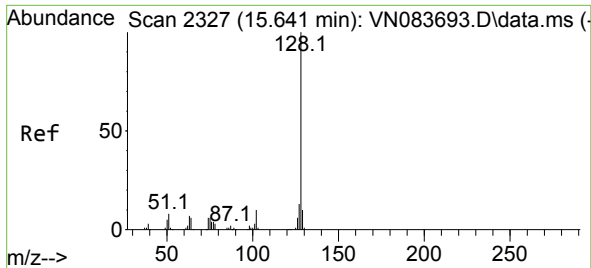
Tgt Ion:146 Resp: 847
Ion Ratio Lower Upper
146 100
111 64.6 21.3 63.9#
148 39.2 31.9 95.5



#87
1,2-Dichlorobenzene
Concen: 0.209 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.294 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

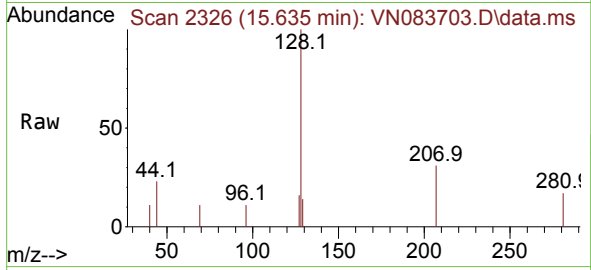
Tgt Ion:146 Resp: 847
Ion Ratio Lower Upper
146 100
111 64.6 22.6 67.8
148 39.2 31.3 93.8





#91
Naphthalene
Concen: 0.376 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN083703.D
Acq: 06 Sep 2024 18:00

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)



Tgt Ion:	128	Resp:	2730
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	4.9	8.6	13.0#

